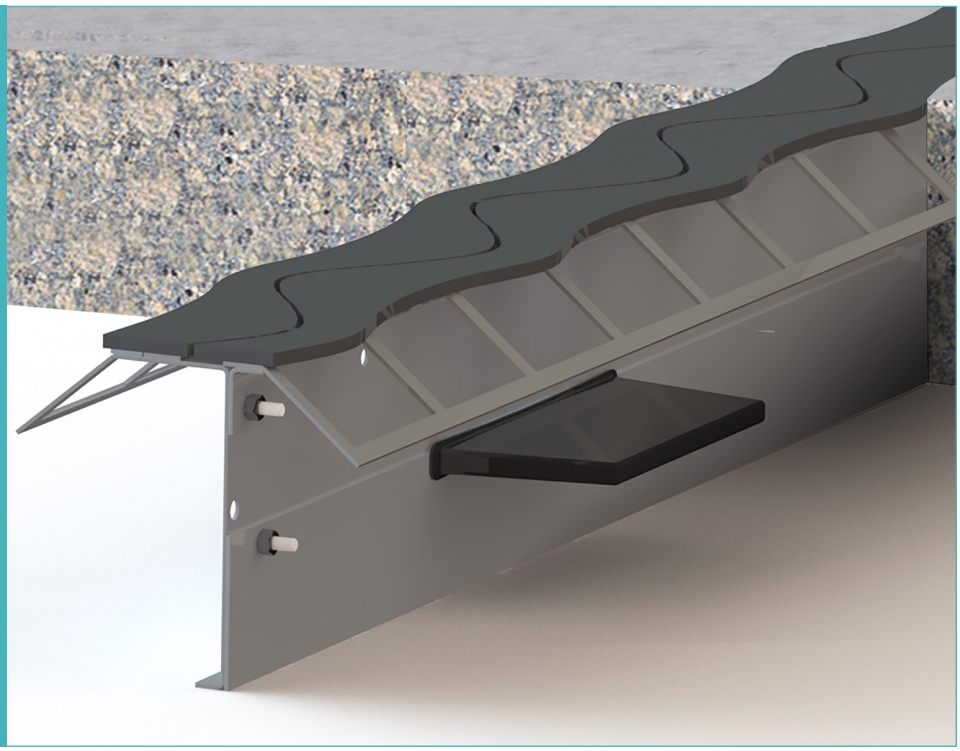
www.rcrflooringproducts.com
RCR Flooring Products Limited
Mill Close, Lee Mill Industrial Estate, Ivybridge, Devon, PL21 9GL
t: +44 1752 895288 | f: +44 1752 395800 | e: info@rcrflooringproducts.com

permaban®

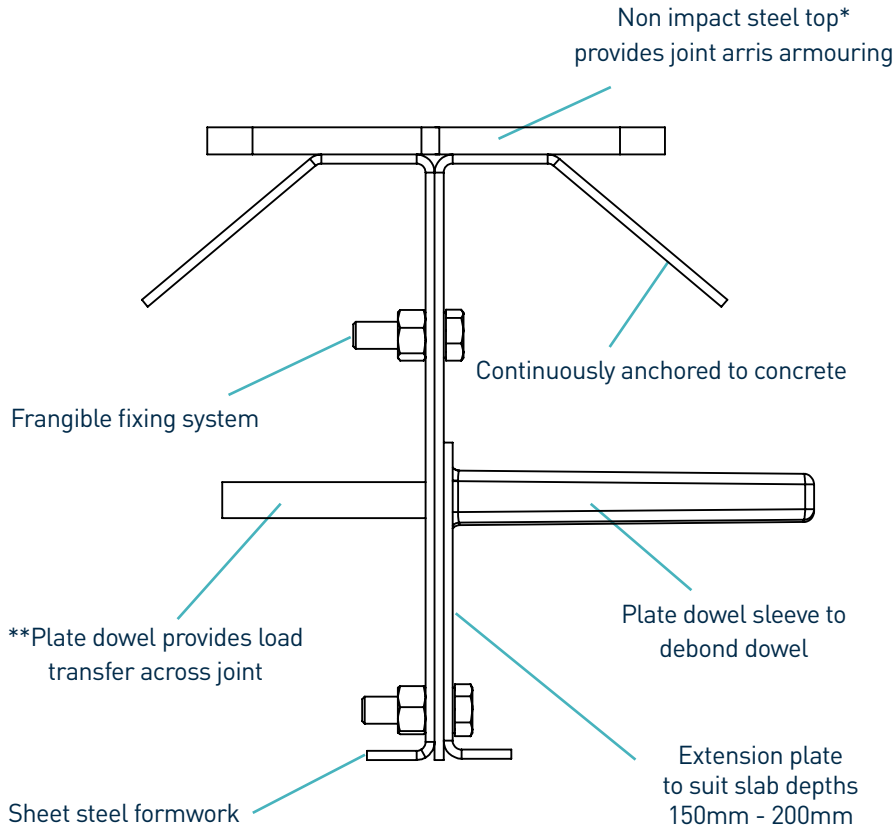
Permaban Wave®

Specification Sheet
Issue 2.5
01/09/2024

Permaban Wave®



Permaban Wave®



*Also available in electro-galvanised steel and stainless steel
**Dowels available in 8mm and 10mm thickness

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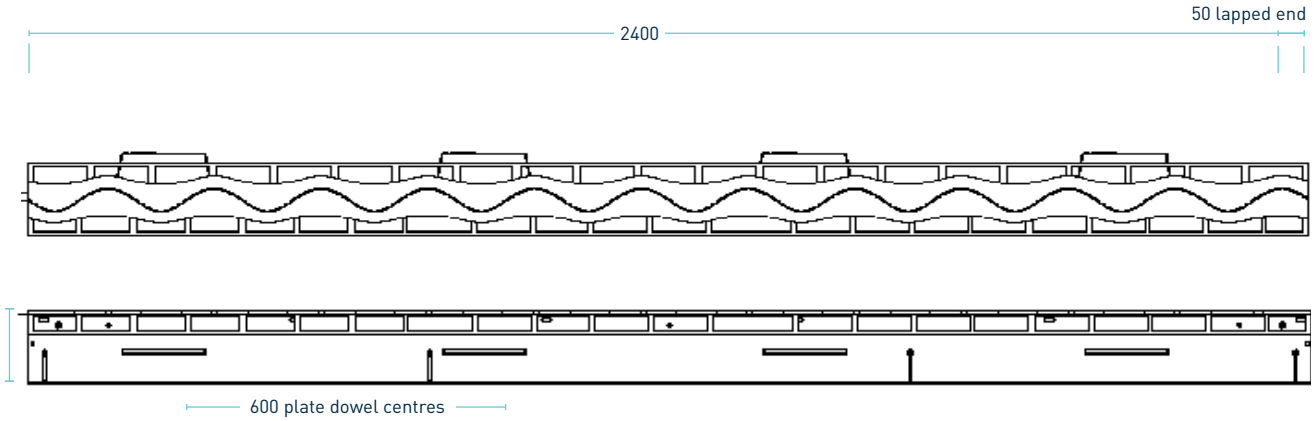
manufacturing tolerances

Length	±2.0mm	**Height**	±1mm	**Straightness**	±0.5mm/600mm

dimensions of Permaban Wave®



dimensions in mm

dimensions and weight of Permaban Wave®

Nominal Slab Depth (mm)	Joint Height, h (mm)	Dowel Size (mm)	Dowel Centres (mm)	Length (mm)	Single Joint Weight (kg)	Number Per Bundle	Bundle Weight (kg)
150 - 200	140 - 190	151 x 120 x 8	600	2400	28.5	50	1550
225	200				31.5	44	1511
250	225				32.5	44	1555

Typical height and length values shown only. Weight values shown are based on Permaban Wave® including TD8 dowels and are approximate.

materials

Component	Material
Non impact steel top provides joint arris	EN 10277-1:2018 S235JRC
Sheet steel formwork	EN 10130:2006 DC01
Plate dowel	BS EN 10025-2:2004 S275JR
Plate dowel sleeve	HDPP

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theoretical calculated ultimate loads at failure of dowel or concrete

(For typical slabs, 40N/mm² concrete and 20mm joint opening)

		Unreinforced Slab	
Slab Depth (mm)	**Dowel Type**	**Bursting (kN/m)**	**Bending (kN/m)**
Universal Divider Plate to Suit 150 - 200	TD8	34.5	86.2
	TD10	34.5	123.0
225	TD8	58.8	86.2
	TD10	58.8	123.0
250	TD8	70.3	86.2
	TD10	70.3	123.0
275	TD8	82.9	86.2
	TD10	82.9	123.0
300	TD8	84.2	86.2
	TD10	84.2	123.0
325	TD8	79.5	86.2
	TD10	79.5	123.0

Ultimate load (kN/m)

This table shows the load at failure in bursting (failure of the concrete) and bending (failure of the dowel) for a joint opening of 20mm - larger joint openings can be accommodated. The ultimate load has been calculated in accordance with TR34 4th Edition. Dowel positions taken at mid depth of slab. For more detailed analysis please contact RCR Flooring Products Ltd.

*All design calculations should be verified by a suitably qualified structural engineer.

compatible dowel systems